



CITY OF HAYWARD

AGENDA REPORT

AGENDA DATE 04/12/05

AGENDA ITEM 3

WORK SESSION ITEM _____

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Water Main Retrofit at Hayward Fault Crossings on Walpert Street and Palisade Street – Approval of Plans and Specifications and Call for Bids

RECOMMENDATION:

It is recommended that the City Council approve the plans and specifications for the Water Main Retrofit at Hayward Fault Crossings on Walpert Street and Palisade Street, and call for bids to be received on May 17, 2005.

BACKGROUND:

The City has a number of water mains crossing the Hayward Fault that will be subject to fault rupture hazard, as described in a report prepared by MMI Engineering, Inc., dated March 20, 2003. The pipe material and composition of these water mains provide for limited displacement and rotational capacity and, therefore, cannot survive the expected displacements predicted to occur in a major seismic event on the Hayward Fault. The typical material of these water mains is cast iron, which is typically brittle and does not have the ductility to accommodate large fault movements.

The mitigation strategy for the water system, as recommended in the MMI Engineering report, consists of a combination of creating the ability to bypass or isolate breaks and, where appropriate, replacement. City crews have completed the first phase of the work by installing 12 new fire hydrants and valves at fault crossing locations, as well as purchasing flexible pipe to use in an emergency. The remaining phase includes the replacement of pipelines in Walpert Street and Palisade Street. The pipelines in Walpert Street and Palisade Street are parts of two of the transmission mains that feed the storage reservoirs located in the hills, east of the Hayward Fault. It was recommended that these pipelines be replaced with high-strength steel pipes for better rupture resistance.

The construction of replacement water mains will improve seismic resistance and reliability. This project will consist, in general, of replacing 1,211 linear feet of existing 24-inch pipe at Walpert Street and 719 linear feet of 16-inch pipe at Palisade Street. The project also includes

installation of new valves and fittings, abandonment of existing mains and valves, and necessary pavement repair.

Notices will be provided to residents, property owners, and business owners who may be affected by the construction, to inform them of the nature and purpose of the work, potential impacts, and a City contact for additional information. A second notice will be provided when the contractor work schedule is defined and specific dates for street closures can be established.

Environmental Review:

This project is categorically exempt from environmental review under the California Environmental Quality Act (CEQA). The Public Resources Code states that CEQA does not apply to any project of less than one mile in length within a public street or highway or any other public right-of-way for the installation of a new pipeline, or the maintenance, repair, restoration, reconditioning, replacement, removal, or demolition of an existing pipeline of any length.

Project Cost:

Engineering Study	\$ 139,000
Phase I Construction (In-house)	251,000
Design (In-house)	40,000
Phase II Construction (This Action)	780,000
Inspection & Administration	<u>80,000</u>
Total:	\$1,290,000

Funding:

The 2004-05 Capital Improvement Program includes a total of \$1,300,000 for this project in the Water System Replacement Fund.

Schedule:

The following tentative project schedule has been developed for these projects:

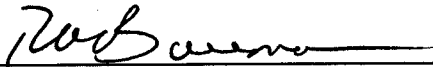
Advertising	April 12, 2005
Open Bids	May 17, 2005
Award Construction Contract	June 21, 2005
Begin Construction	July 19, 2005
Construction Completion	November 30, 2005

Prepared by:



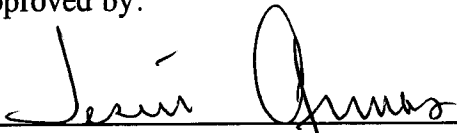
Alex Ameri, Deputy Director of Public Works

Recommended by:

For 

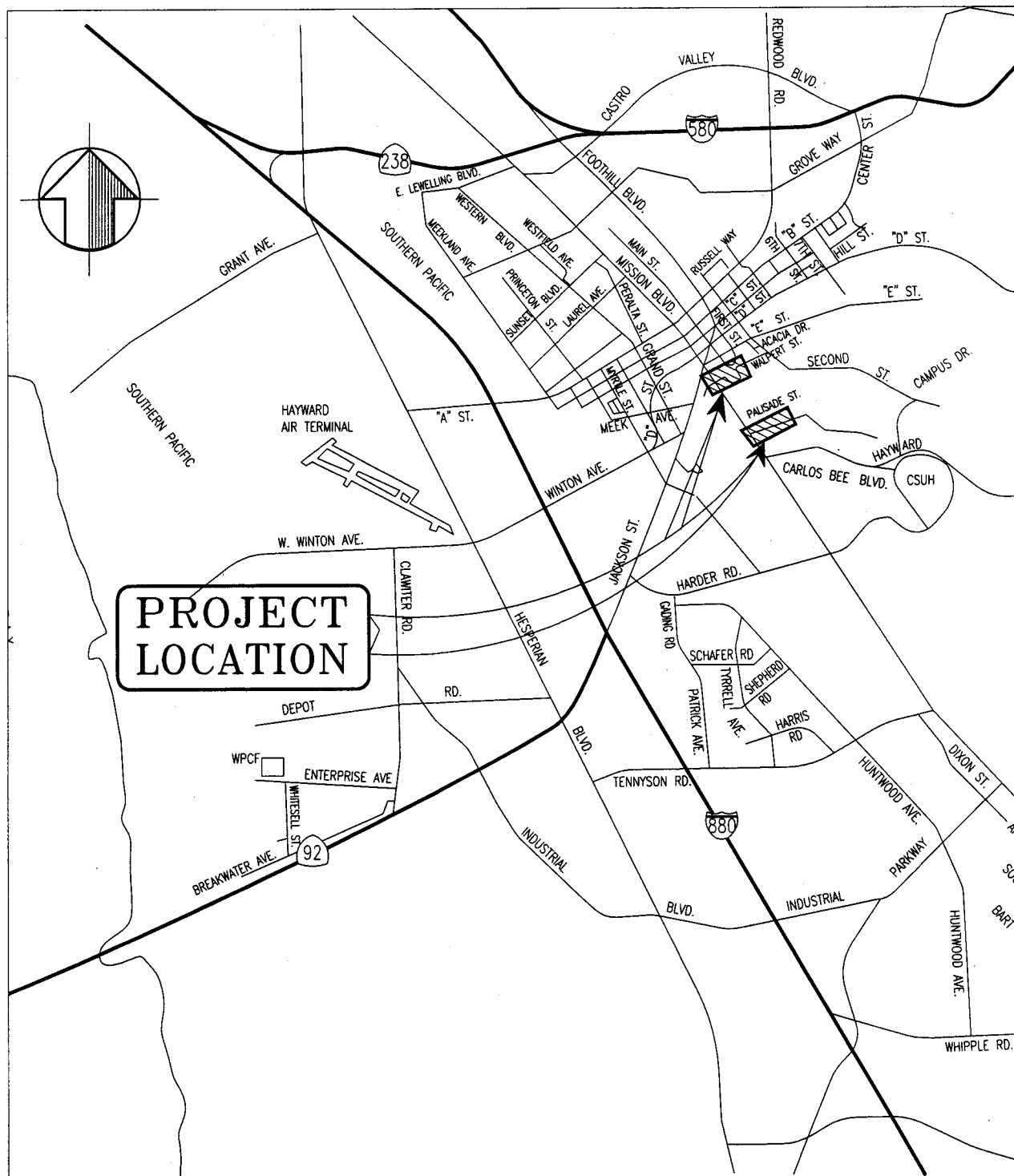
Dennis L. Butler, Director of Public Works

Approved by:



Jesús Armas, City Manager

Attachments: Exhibit A - Project Location Map



**PROJECT
LOCATION**

LOCATION MAP

**WATER MAINS RETROFIT AT HAYWARD FALUT CROSSING AT
WALPERT STREET AND PALISADE STREET**

PROJECT NO. 623-7164

EXHIBIT "A"

DRAFT

NH 4/6/05

HAYWARD CITY COUNCIL

RESOLUTION NO. _____

Introduced by Council Member _____

**RESOLUTION APPROVING PLANS AND
SPECIFICATIONS FOR THE WATER MAIN RETROFIT
AT HAYWARD FAULT CROSSINGS ON WALPERT
STREET AND PALISADE STREET PROJECT, PROJECT
NO. 7164**

BE IT RESOLVED by the City Council of the City of Hayward as follows:

1. That those certain plans and specifications for the Water Main Retrofit at Hayward Fault Crossings on Walpert Street and Palisade Street Project, Project No. 7164, on file in the office of the City Clerk, are hereby adopted as the plans and specifications for the project;
2. That sealed bids therefor will be received by the City Clerk's office at City Hall, 777 "B" Street, 4th Floor, Hayward, California 94541-5007, up to the hour of 2:00 p.m. on Tuesday, May 17, 2005, and immediately thereafter publicly opened and declared by the City Clerk in the Public Works Conference Room, 4D, located on the 4th Floor of City Hall, Hayward, California;
3. That the City Council will consider a report on the bids at a regular meeting following the aforesaid opening and declaration of same; and
4. That the City Clerk is hereby directed to cause a notice calling for bids for the required work and material to be made in the form and manner provided by law;
5. The project is categorically exempt from environmental review under the California Environmental Quality Act (CEQA).

IN COUNCIL, HAYWARD, CALIFORNIA _____, 2005

ADOPTED BY THE FOLLOWING VOTE:

AYES: COUNCIL MEMBERS:

MAYOR:

NOES: COUNCIL MEMBERS:

ABSTAIN: COUNCIL MEMBERS:

ABSENT: COUNCIL MEMBERS:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward